PIONEER®

PIONEER ELECTRONICS (USA) INC.

# SERVICE INFORMATION

TO: Authorized Service Companies (Video) No. SI-830101

MODEL: PR-7820-3/PM23B Spindle Interlock Option

SUBJECT: INCREASING THE ACCEPTABLE RANGE FOR START UP OF A PROPERLY CLAMPED DISC ON THE PR-7820-3/PM23B

SYMPTOM: Due to narrow range of previous version of the PM23B, it did not allow for the successfull start up of a properly clamped disc as the player ages.

SOLUTION: New revision of the PM23B E-PROM allows for a much wider acceptance range for a properly clamped disc without significantly diminishing the effectiveness of the SPINDLE INTERLOCK feature.

PROCEDURE: When servicing the PR-7820-3/PM23B for the START UP PROBLEM, please check the E-PROM ID CODE (see attached procedure) and verify which revision E-PROMS are presently in the player. If the E-PROM ID CODE read is ( ,* 03, 1 ) then the E-PROMS should be changed to the latest revision. The E-PROM ID CODE for the latest revision should read ( ,* 03, 7 ).

If the player has the latest revision E-PROMS and still exhibits the problem, then the latest Alignment Procedure should be implemented, (see attached procedure). This new Alignment Procedure should be used in conjunction with the latest E-PROMS in all cases.

| PART NUMBER: | OLD | NEW |
|---|---|---|
| E-PROMS 1 & 2 for Latest Revision PM23B | VYW-007 | VYW-007 |

NOTE: After servicing PR-7820-3/PM23B with new E-PROMS, please return "OLD" E-PROMS, following the Parts Return Procedure Policy Guide # 82-11-01 and return them to:

PIONEER ELECTRONICS SERVICE
20731 Fordyce Street
Carson, CA 90749
ATTN: VIDEO PARTS CONTROL

Technical Information Center Dist: IND, SSD Reg: 1,2,3,4,5 IND VID

1925 EAST DOMINGUEZ STREET
POST OFFICE BOX 1760
LONG BEACH, CALIFORNIA 90801
PHONE: 213/639-5050 FAX: (213) 637-1382

## READING THE EPROM ID

The EPROM ID Code has been incorporated on PR7820-3 players only. In order to read the ID perform the following steps:

1. Properly load a standard (CAV) disc on the spindle. To avoid confusion press the RAM CLEAR switch on the rear of the player and insure that AUDIO 2 is turned OFF before pressing "PLAY".

2. Press "PLAY" and when video has appeared on screen, scan to a dark picture and press "STOP". The dark picture facilitates reading the on-screen graphics.

3. Press the following keys on the RU-8 Remote Control Unit (RCU):

   1 , 0 , 2 , 3 , PGM , PGM , PGM .

4. The on-screen display should read: Top line ---> *0001
   2nd line ---> ,*XX,*YY

5. The 2nd line is the EPROM ID.

PR7820-3 REVISION TABLE

| DATE | MODEL/OPTION | REV # | REV ID | ON SCREEN DISPLAY |
|---|---|---|---|---|
| JUL81 | PR7820-3 STANDARD | ORIGINAL MODEL THREE PLAYERS | | ,*FF,*FF |
| JUL81 | PR7820-3 PM23A | | | ,*FF,*FF |
| JUL81 | PR7820-3 PM23B | | | ,*FF,*FF |
| JAN82 | PR7820-3 STANDARD | 0 | *03*0D | ,*03,*0D |
| JAN82 | PR7820-3 PM23A | 0 | *03*0E | ,*03,*0E |
| JAN82 | PR7820-3 PM23B | 0 | *03*0F | ,*03,1 SEE NOTE1 |
| DEC82 | PR7820-3 STANDARD | 1 | *03*1D | ,*03,*1D |
| DEC82 | PR7820-3 PM23A | 1 | *03*1E | ,*03,*1E |
| OCT82 | PR7820-3 PM23B | 1 | *03*1F | ,*03,7 SEE NOTE2 |

NOTE 1 - a "*0F" is interpreted by the player as the digit "1".
NOTE 2 - a "*1F" is interpreted by the player as the digit "7".